ZoneFlex™ 7300 Series

Single/Dual-Band 802.11n Smart Wi-Fi Access Points

High Performance, 802.11n Mid-Range Smart Wi-Fi Access Points with Adaptive Antenna Technology

The Ruckus ZoneFlex 7300 series delivers high-performance and reliable 802.11n wireless networking at the industry's most affordable price point.

Unlike any other 802.11n wireless solution in its class, the ZoneFlex 7300 combines patented adaptive antenna technology and automatic interference mitigation to deliver consistent, predictable performance at extended ranges with 4dBi of signal gain and 10dB of interference rejection.

The ZoneFlex 7300 delivers a 2- to 4-fold increase in signal range with lower packet error rates while reducing the number of APs required to deliver dependable Wi-Fi service.

Each ZoneFlex 7300 integrates Ruckus-patented BeamFlex, a software-controlled, high gain antenna array that continually forms and directs each 802.11n packet over the best performing signal path. And because the ZoneFlex 7300 automatically adapts to environmental changes, once deployed, enterprises never have to worry about constant site surveys as the environment changes.

A sleek and low-profile design, the ZoneFlex 7300 was purpose-built for cost-minded enterprises requiring reliable high speed client connectivity. It is ideal for a variety of enterprise and hotspot environments including hotels, schools, retail outlets, branch offices and public venues.

Offered in single and dual band models, the ZoneFlex 7300 series can be deployed as a standalone access point or as part of the centrally-controlled Smart Wireless LAN with the Ruckus ZoneDirector. The ZoneFlex 7300 can also be easily deployed using Smart Mesh Networking to extend Wi-Fi services in locations where Ethernet cabling is not available or cost prohibitive.

Standard 802.3af power over Ethernet (PoE) leverages existing PoE switches eliminating costly and cumbersome upgrades.

BENEFITS

Best-in-class mid-range performance at lowest cost

Unprecedented price/performance with extended range at the industry's most affordable price point for both single and dual-band

Extended range requires fewer APs

Adaptive antenna technology delivers a 2x to 4x increase in Wi-Fi signal coverage minimizing the number of APs required to service any area

Wire-like wireless reliability

Patented smart antenna array, adaptive antenna technology and Quality of Service technologies combine to avoid interference and minimize packet loss

Sleek, low profile enclosure for ease-of-deployment

Aesthetically-pleasing design fits almost anywhere

Super simple configuration and management

The industry's simplest configuration and management through a Web-based wizard and automated deployment capabilities

Flexible deployment options

Standalone or controller-based deployment

Smart wireless meshing

When used with a ZoneDirector Smart WLAN controller, the ZoneFlex 7300 easily extends Wi-Fi services to areas where Ethernet cabling isn't available, possible or cost effective

Investment protection for legacy Wi-Fi networks

Compatible with existing wireless investments, the ZoneFlex 7300 series enhances performance and range for legacy 802.11a/b/g clients

Hassle free migration to higher speed Wi-Fi

Support for standard 802.3af power over Ethernet allows enterprises to use existing PoE switches without costly upgrades

Multiple Ethernet ports

Three Ethernet ports enable connectivity of wired devices such as printers, registers, VoIP phones, servers, etc.

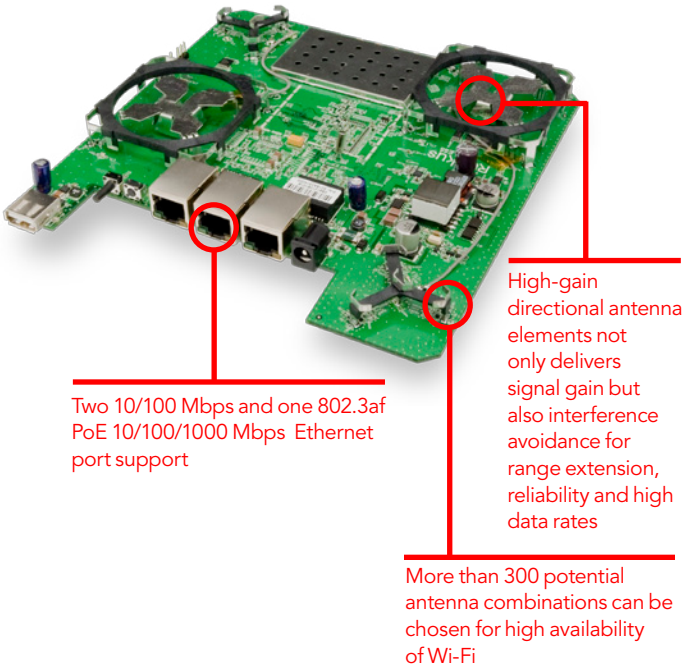
Ruckus™ WIRELESS

ZoneFlex™ 7300 Series

Single/Dual-Band 802.11n Smart Wi-Fi Access Points

Patented BeamFlex™ Technology Extends Signal Range, Improves Stability of Client Connections

All ZoneFlex 7300 Smart Wi-Fi access points integrate a software-controlled smart antenna array that delivers 4dBi of signal gain and 10dB of interference rejection. This allows a 2 to 4x improvement in signal range and a reduction in packet loss from the ability to automatically avoid interference and obstacles.



Advanced WLAN Applications with Smart/OS

When used with the Ruckus ZoneDirector Smart WLAN controller, each ZoneFlex 7300 supports a wide range of value-added applications such as guest networking, Smart Wireless Meshing, Dynamic PSK, hotspot authentication, wireless intrusion detection and many more. With Smart/OS, up to 32 discrete WLANs can be created and mapped to the same or different APs or VLANs. In a centrally managed configuration, the ZoneFlex 7300 works with a wide range of authentication servers including Microsoft's Active Directory, LDAP, and RADIUS.

Flexible Deployment Options

ZoneFlex 7300 APs can be deployed in as a standalone AP or as part of a centrally managed wireless LAN using ZoneDirector Smart WLAN controllers. ZoneFlex 7300's can be deployed across any L2/L3 network and/or meshed without Ethernet cabling. When used with the ZoneDirector, each ZoneFlex 7300 is automatically configured through the network making deployment quick and easy.

Complete Local and Remote Management

Each ZoneFlex 7300 can be managed as a standalone AP through a Web-based GUI, using SNMP or through the Ruckus FlexMaster Wi-Fi remote management system. Local management can also be performed using the ZoneDirector Smart WLAN controller. FlexMaster is a LINUX-based software platform that uses industry-standard protocols to perform bulk configuration, fault detection, monitoring and a wide range of troubleshooting capabilities over a wire area connection. The ZoneDirector enables local management and control of APs, adding value-added services such as transmit power and channel management, guest networking and meshing.

FEATURES

- Single (2.4GHz) and dual-band (5GHz/2.4GHz) options*
- Adaptive antenna technology and advanced RF management
- Up to 4dBi signal gain / 10dB interference rejection
- Automatic interference avoidance, optimized for high-density environments
- Integrated smart antenna array with over 300 unique patterns for high reliability
- Standard 802.3af Power over Ethernet (PoE)
- 2 to 4 times extended range and coverage
- IP multicast video streaming support
- Four queues per client station
- Advanced QoS packet classification and automatic priority for latency-sensitive traffic
- Band steering* and airtime fairness support
- Up to 8 BSSIDs per radio with unique QoS and security policies
- WEP, WPA-PSK (AES), 802.1X support for RADIUS and Active Directory**
- Smart Mesh Networking**
- Zero-IT and Dynamic PSK**
- Admission control/load balancing**
- Captive portal and guest accounts **
- Wall, desktop or ceiling mountable
- USB 2.0 port hardware option (special orders only)***

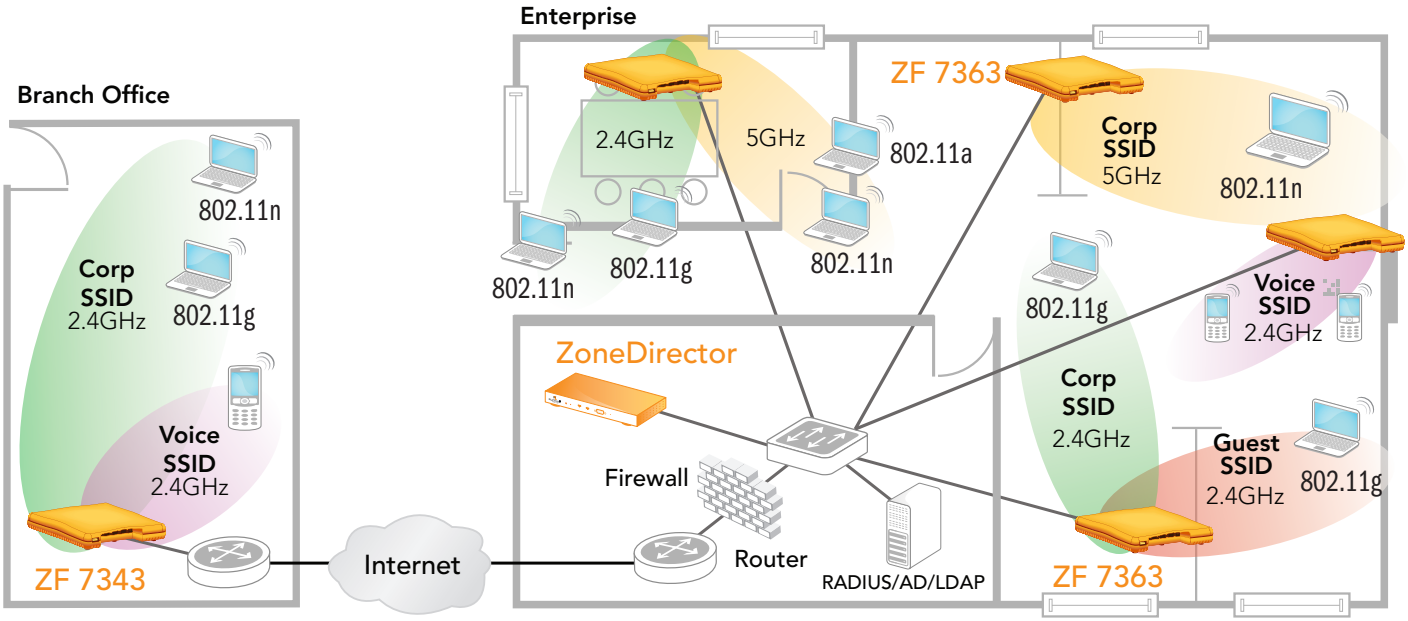
* *ZoneFlex 7363 only*
** *when used with Ruckus ZoneDirector controller.*
*** *hardware build option with future software support*

ZoneFlex™ 7300 Series

Single/Dual-Band 802.11n Smart Wi-Fi Access Points

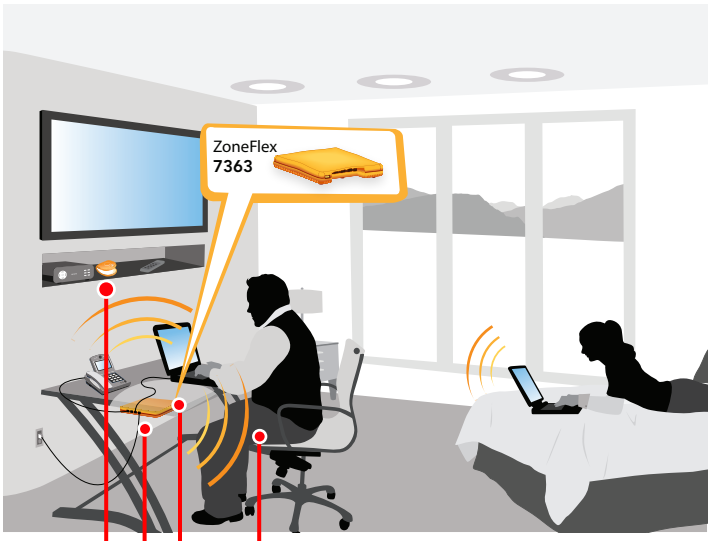
AFFORDABLE PERFORMANCE FOR ENTERPRISES

The ZoneFlex 7300 series integrates seamlessly with your existing network infrastructure, delivering best-in-class 802.11n performance and reliability at the industry's most affordable price - making it the ideal wireless solution for mid-range enterprise and branch office applications.



IN-ROOM DEPLOYMENT FOR HOTELS

The ZoneFlex 7300 series is ideal for deployment in hotel guest rooms to provide wireless connection to high quality video and data access, as well as wired connections to IP phone and guest devices.



Dual-band (2.4/5GHz) support allows for concurrent Internet and IP-based video services

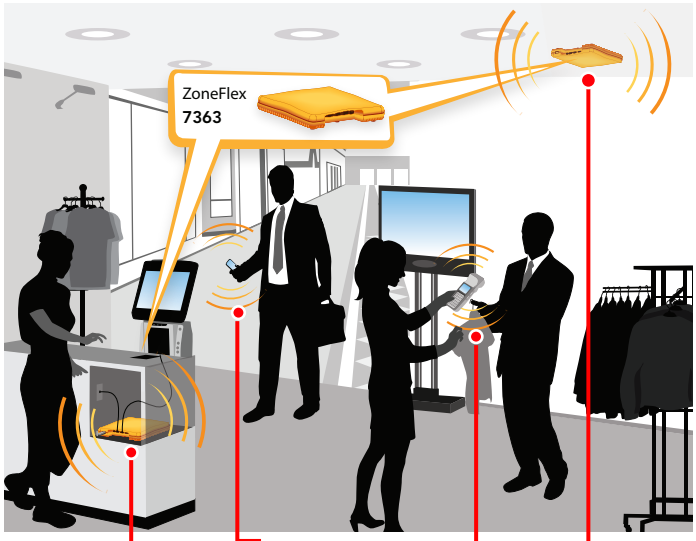
Wired ports for connecting IP devices such as laptops and VoIP phones

Sleek, elegant design easily concealed

Multiple SSIDs for high-speed Internet access and other services

DEPLOYMENT FOR RETAIL / BRANCH OFFICES

The ZoneFlex 7300 series is ideal for deployment in retail stores to provide inconspicuous wireless connection to high quality video, wireless IP phones and data access for handheld PoS bar code scanners.



Wired ports to connect devices such as cash registers, printers, etc.

Multiple SSIDs for differentiated user services *(e.g., guest Wi-Fi, point of sale, voice)*

Reliable Wi-Fi connectivity for point of sale devices

5GHz band and smart antenna system ideal for wireless meshing between APs

Specifications

PHYSICAL CHARACTERISTICS

POWER	• External power adapter
	  • Input: 110-240V AC
	  • Output: 12V DC, 1.5A
	• Power over Ethernet Class 0

PHYSICAL SIZE	• 17.8cm (L), 17.8cm (W), 3.6cm (H)
WEIGHT	• 397 grams (0.875 lbs.)
ANTENNA	• Internal software-configurable antenna that provides over 300 unique patterns
ETHERNET PORTS	• 1 auto MDX, auto-sensing 10/100/1000 Mbps, RJ-45, POE port • 2 auto MDX, auto-sensing 10/100 Mbps, RJ-45 ports (7343/7363 only)
ENVIRONMENTAL CONDITIONS	• Operating Temperature: 0°C - 40°C • Operating Humidity: 15% - 95% non-condensing
POWER DRAW	• ZF7363: 12.95W (PoE), 12W (12V DC) • ZF7343: 9W (PoE), 9W (12V DC)

PERFORMANCE AND SUPPORTED CONFIGURATIONS

CONCURRENT STATIONS	• 200+ (100+/radio)
TARGET UDP THROUGHPUT	• 150 Mbps sustainable throughput for a 5,000 sq. foot area for each radio for each band
Vo-Fi CLIENTS	• Up to 20 simultaneously

TRAFFIC MANAGEMENT AND QUALITY OF SERVICE

CLASSES OF SERVICE	• Voice, video, best effort and background
SOFTWARE QUEUES	• Four per station
802.11e	• Supported
AUTOMATIC TRAFFIC CLASSIFICATION	• Automatic prioritization of VoIP and video traffic
ADVANCED QOS	• Rate limiting, band steering and airtime fairness
VLAN SUPPORT	• 802.1Q
HEURISTIC CLASSIFICATION	• Supported

DEPLOYMENT

OPTIONS	• Managed by ZoneDirector • Individually managed • Managed by FlexMaster

MANAGEMENT

CONFIGURATION	• Web user interface, CLI (Telnet), SSH HTTP/S, SNMP via ZoneDirector, HTTPS/XML/SOAP via FlexMaster
STATISTICS	• LAN, wireless and associated stations (accessible via Web UI)
AUTO AP SOFTWARE UPDATES	• FTP or TFTP, remote auto available

WI-FI

STANDARDS	• IEEE 802.11a/b/g/n* • 2.4GHz and 5GHz*
SUPPORTED DATA RATES	• **802.11n:** 6.5Mbps – 130Mbps (20MHz) 6.5Mbps – 300Mbps (40MHz) • **802.11a:** 54, 48, 36, 24, 18, 12, 9 and 6Mbps* • **802.11b:** 11, 5.5, 2 and 1 Mbps • **802.11g:** 54, 48, 36, 24, 18, 12, 9 and 6 Mbps
RADIO CHAINS	• 2 x 2
SPATIAL STREAMS	• 2
RF POWER OUTPUT	• 26 dBm for 2.4GHz • 24 dBm for 5GHz* • Country-specific power settings are configurable
CHANNELIZATION	• 20MHz and/or 40MHz
FREQUENCY BAND	• IEEE 802.11n: 2.4 – 2.484 GHz and 5.15 – 5.85 GHz* • IEEE 802.11a: 5.15 – 5.85 GHz* • IEEE 802.11b: 2.4 – 2.484 GHz
OPERATING CHANNELS	• US/Canada: 1-11 • Europe (ETSI X30): 1-13 • Japan X41: 1-13 • 5GHz channels: Country dependent for the following channel ranges: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 149, 153, 157, 161, 165
BSSID	• Up to eight per radio
POWER SAVE	• Supported
WIRELESS SECURITY	• WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i • Authentication via 802.1X with the ZoneDirector, local authentication database, support for RADIUS, LDAP, and ActiveDirectory
CERTIFICATIONS	• U.S., Europe, Australia, Brazil, Canada, Chile, Hong Kong, India, Mexico, New Zealand, Philippines, Saudi Arabia, Singapore, South Africa, Taiwan, Thailand, UAE, Vietnam • WEEE/RoHS compliance • EN-60601-1-2 • Wi-Fi Alliance

**5GHz functionality is only available with ZoneFlex 7363*

Product Ordering Information

Model	Description
ZoneFlex 7300 Series Smart Wi-Fi 802.11n Access Points	
901-7363-XX00	Concurrent dual band 802.11n access point (includes cable cover), no power adapter
901-7343-XX00	Single band 802.11n access point (includes cable cover), no power adapter
901-7341-XX00	Single band 802.11n 1-port access point, no power adapter
902-0172-XX10	Power Supply (Qty. 10)
902-0152-XX01	Power Supply (Qty. 60)

PLEASE NOTE: When ordering you must specify the destination region by indicating -US, -EU, -AU, -BR, -IN, -UK, -UN, or -UU instead of XX.

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Ruckus™ WIRELESS

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